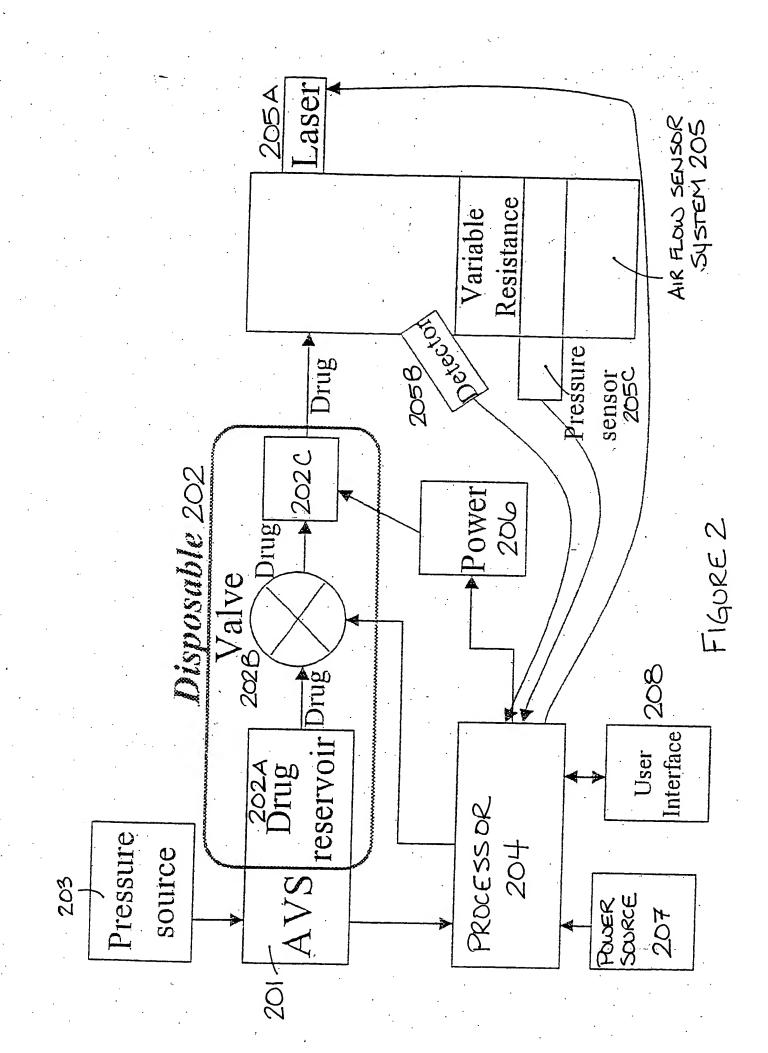


FIGURE



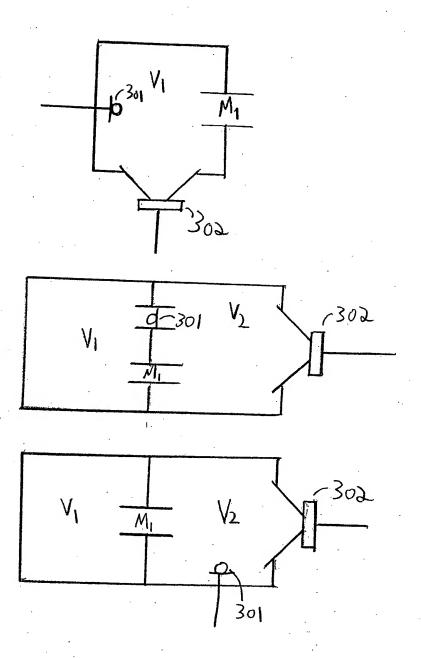


Figure 3

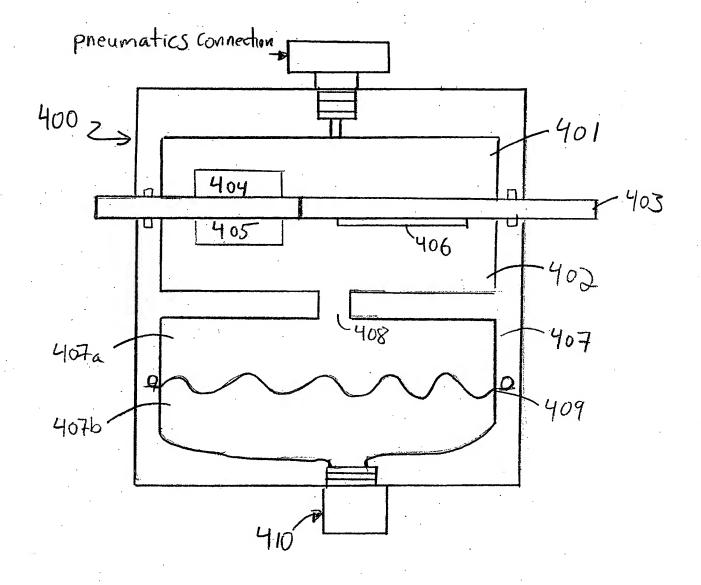
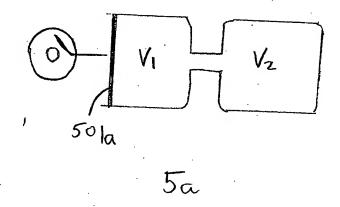
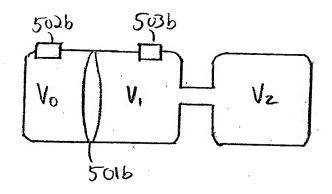


Figure 4





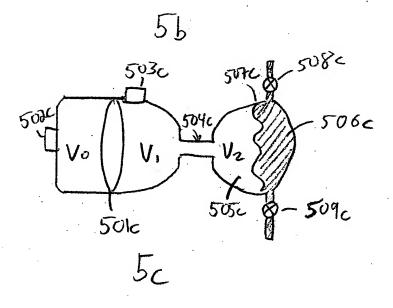
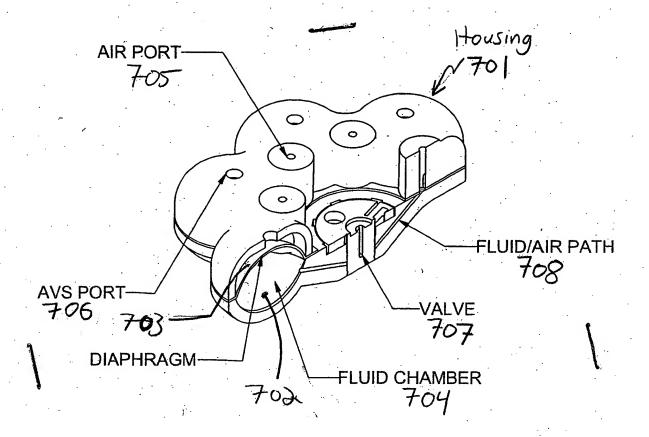


Figure 5

601 (605) 602 (607) 607 (606) 607 (606) 607 (606) 604 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (607) 606 (6



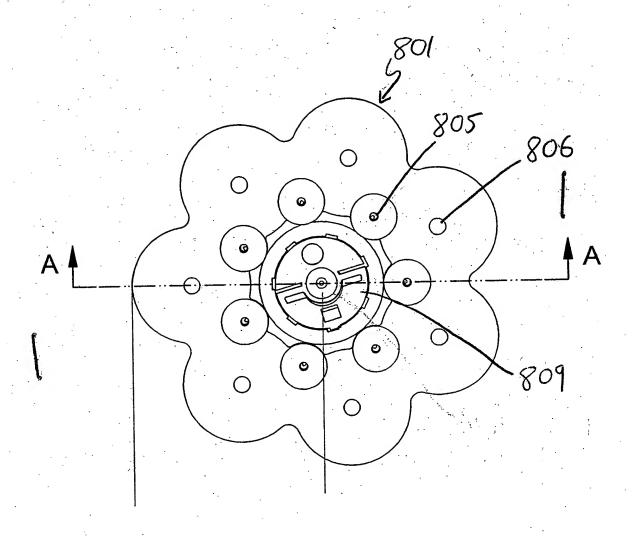
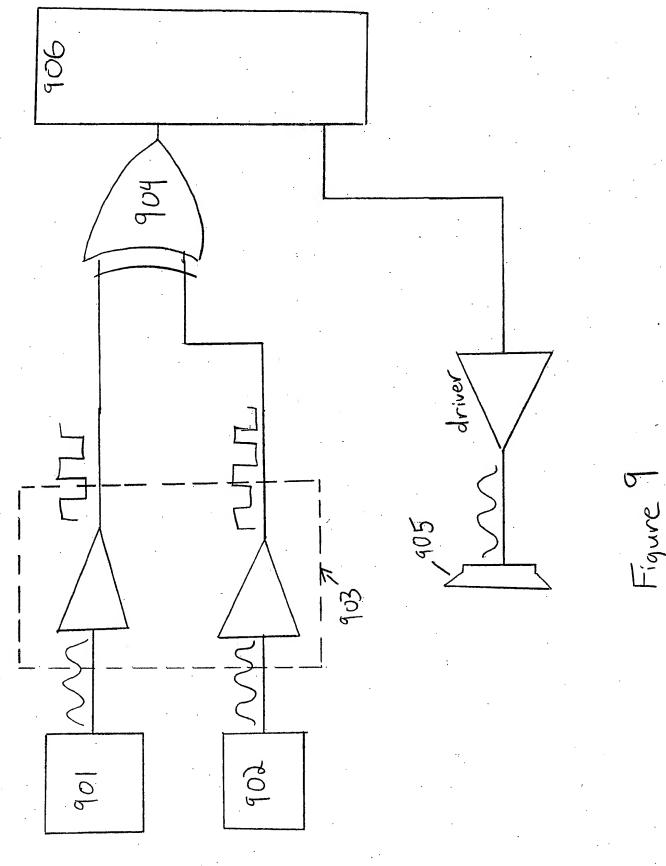


Figure 8



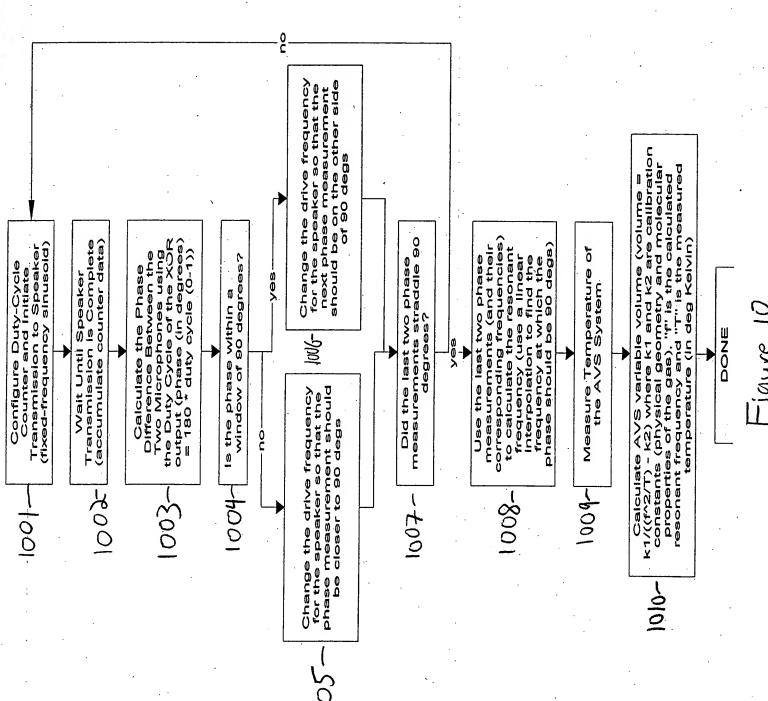


Figure 10

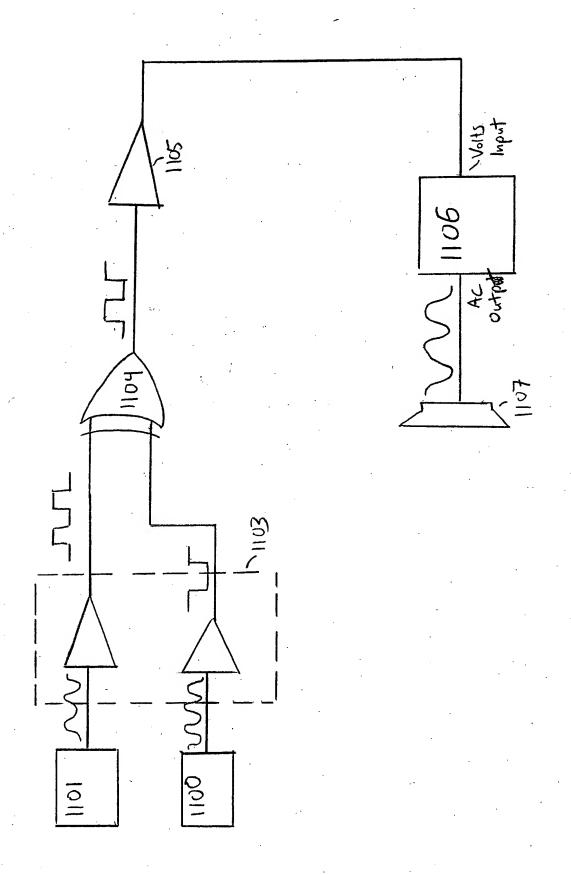
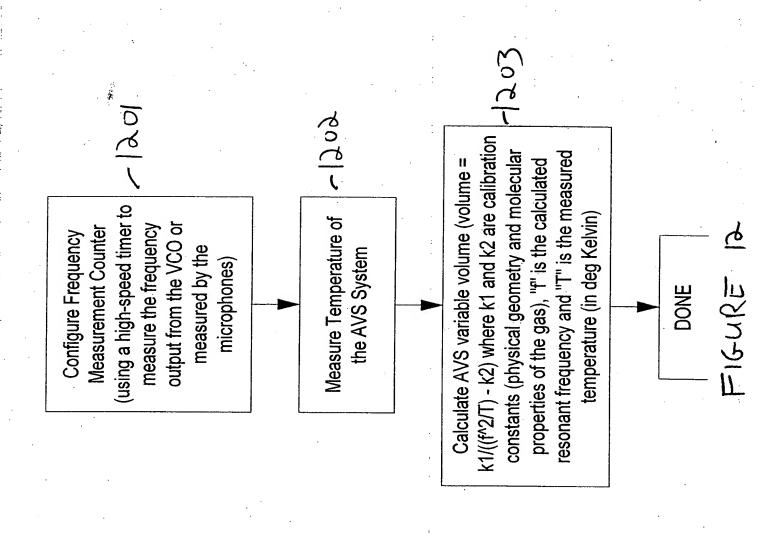


Figure 11



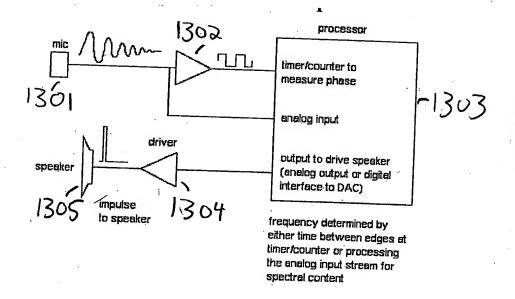
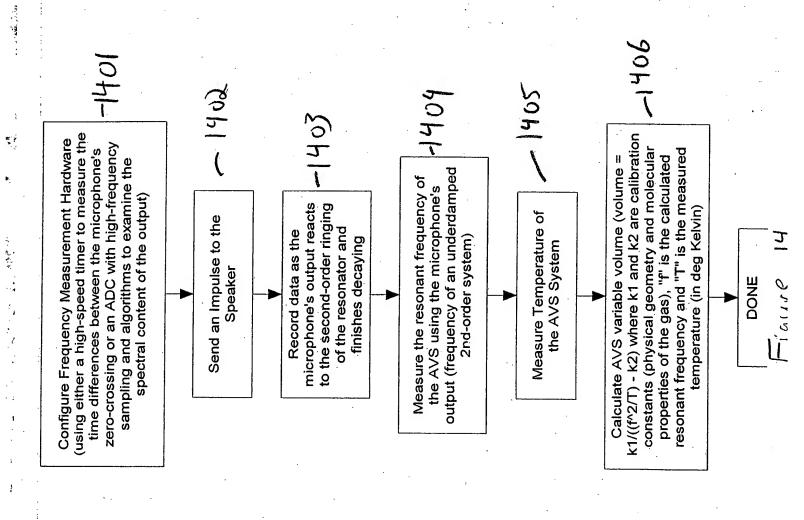


Figure 13



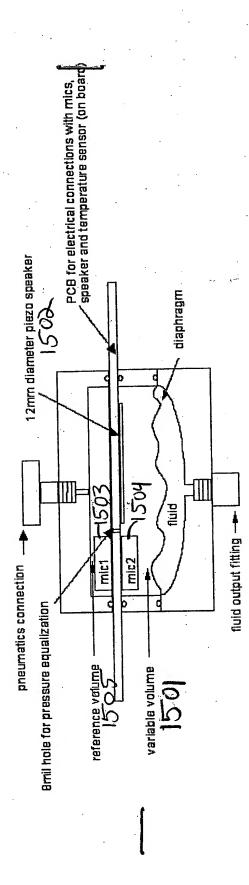
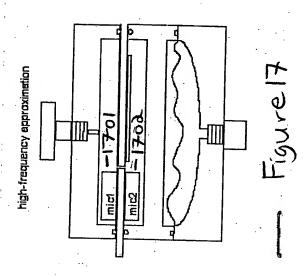
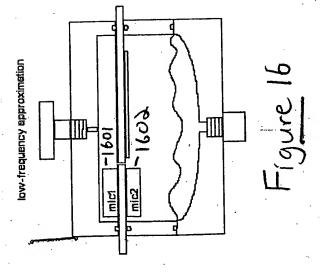


Figure 15





(if desired) Cycle through multiple frequencies to confirm the volume measurement (should be independent of frequency, presence of air bubbles within the variable fluid volume or other "acoustic leaks" or mic/electronics errors may be detected)

(if desired and using AVS) Perform a volume measurement (with amplitude ratio technique) using a frequency >> resonant frequency of AVS (should be equal to the fixed volume and independent of the variable volume). This is a good confirmation of system performance and may be used to assist in air bubble detection or compensation for microphone sensitivity drift or electronics errors.

Tigure 18